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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR ATTORNEY DOCKET NO.		CONFIRMATION NO.		
10/643,102	08/18/2003 Mark Krier		024833-2602	3314		
30542 FOLEY & LAR	7590 04/09/200 RDNER LLP	EXAMINER				
P.O. BOX 8027	-	A, MINH D				
SAN DIEGO, C	A 92138-0278		ART UNIT	PAPER NUMBER		
			2821			
			MAIL DATE	DELIVERY MODE		
			04/09/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)				
			10/643,102		KRIER ET AL.			
Office Action Summary			Examiner		Art Unit			
			Minh D A		2821			
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the co	over sheet with the c	orrespondence ad	ddress		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn e period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st are to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136 nunication. 30) days, a reply a atutory period wi will, by statute, o	6(a). In no event, within the statutor ill apply and will ex cause the applicat	however, may a reply be timy minimum of thirty (30) days pire SIX (6) MONTHS from ion to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).			
Status								
1)🛛	Responsive to communication(s) file	ed on <u>12/10/</u>	<u>/07</u> .					
2a) <u></u>	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🛛	☑ Claim(s) <u>1-17 and 23-25</u> is/are pending in the application.							
	4a) Of the above claim(s) is/a	re withdraw	n from consi	deration.				
5)🛛	Claim(s) <u>3-8</u> is/are allowed.							
6)⊠								
7)🖂	Claim(s) <u>14</u> is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or	election requ	uirement.				
Applicat	ion Papers							
9)[The specification is objected to by th	e Examiner						
10)	The drawing(s) filed on is/are:	: a) <u></u> acce	pted or b)	objected to by the F	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to	by the Exa	aminer. Note	the attached Office	Action or form P	TO-152.		
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents documents of the priori	have been r have been r ty document (PCT Rule 1	eceived. eceived in Applications have been receive 7.2(a)).	on No ed in this National	l Stage		
Attachmen	ut(s) ce of References Cited (PTO-892)		4)	☐ Interview Summary	(PTO-413)			
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date		5) 6)	Paper No(s)/Mail Da Notice of Informal P		O-152)		

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DETAILED ACTION

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Shamir et al (Pub. No: U.S 2004/0135726A1).

Regarding claim 1, Shamir et al disclose, in figures 2a, and 7A and 7B), a magnetic loop dipole antenna comprising: a first portion (202); a second portion (204)(page 3, paragraphs {0030}}, lines 5-14), a third portion (the loop, such as figures 7a-7b), the third portion coupled to the first portion and to the second portion; and a substrate, the substrate comprising an antenna coupled to the substrate as an etched pattern of conductive material, such as copper, for example. The antenna is fed through a capacitive gap, or as a series capacitor from each lead of the feeder to a side of the conductive loop. The substrate therefore, comprise "at least one void" in the conductive material forming the loop. The capacitance is an electrical gap and the void is a disruption of the conductive material at the gap. Thus, the capacitive area claimed in Claim 1, for example, substantially spans the void, as recited.

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Regarding claim 9, Shamir et al disclose, in figures 2a, and 7A and 7B), a magnetic loop dipole antenna, the antenna including a capacitative area (gaps(202 and 204)); a substrate, a substrate, the substrate comprising an antenna coupled to the substrate as an etched pattern of conductive material, such as copper, for example.

The antenna is fed through a capacitive gap, or as a series capacitor from each lead of the feeder to a side of the conductive loop. The substrate therefore, comprise "at least one void" in the conductive material forming the loop. The capacitance is an electrical gap and the void is a disruption of the conductive material at the gap. Thus, the capacitive area claimed in Claim 9, for example, substantially spans the void, as recited.

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Regarding claims 10-11, Shamir et al disclose wherein the substrate comprises a high dissipation factor substrate and wherein the substrate comprises a FR4. (page 3, paragraph (0038), lines 1-12).

Regarding claim 12, Shamir et al disclose wherein the system comprise a plurality of circuits, since the small antenna requires to have a plurality of circuits such as transmitter and receiver and amplifier.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2002/0068543),

4. Claims 2, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Shamir et al (Pub. No: U.S 2004/0135726A1) in view of Shah (Pub. No: US

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Regarding claims 2, 13, Shamir discloses that, small antennas can be used many type wireless. Page 1, paragraph [0008], lines 1-20.

Shamir does not teach that, wherein the antenna is configured to operate at a frequency selected from a group consisting of a GPS, a Bluetooth, a WiFi, and a cellular phone frequency.

Shah et al disclose a wireless telephone(203) for using any type wireless device such as a Bluetooth or WiFinetwork. Page 9, paragraph [0081], lines 15-18.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ the wireless telephone disclosed in Reference of Shah in the small entenne of Shamir to achieve the claimed invention. As disclosed in Reference of Shah, the motivation for the combination would be to obtain the wireless communication protocols such as a Bluetooth or Wifi Network.

5. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Shamir et al (Pub. No: U.S 2004/01357261A) in view of Lepkofker(Patent No: 5, 652, 570).

Regarding claim 16, Shamir discloses that, small antennas can be used many type wireless. Page 1, paragraph [0008], lines 1-20.

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<u>Shamir does not teach that</u> wherein the system comprises a wrist type and wherein the system is selected from a group consisting of: a medallion, a button, a belt buckle, a wrist, a phone, a PDA apparatus.

Lepkofker discloses the a wrist type and wherein the system is selected from the a group consisting of : a medallion, button, a belt buckle, wrist, phone, a PDA apparatus. See figures 1A-1D, col.7, lines 1-25.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ the wrist type disclosed in Reference of Lepkofker in the small antenna of Shamir to achieve the claimed invention. As disclosed in Reference of Lepkofker, the motivation for the combination would be to obtain a data or information selected by user.

6. Claims 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Shamir et al (Pub. No: U.S 2004/0135726A1) in view of Rutkowski et al (U.S Patent No: 6, 124, 831).

Regarding claims 23 and 25, Shamir et al disclose an antenna includes a capacitative area (gap); and a substrate, the substrate comprising a voids (defined by capacitive areas by gaps)

Shamir does not teach that, wherein the at least two antennas.

Rutkowski discloses a folded dual antennas for wireless communications device.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ two antennas such as that suggested by Rutkowski in the system of Shamir to operate a multiple frequency bands.

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Regarding claim 24, Sharir discloses that, small antennas can be used many type wireless. Page 1, paragraph [0008], lines 1-20.

Shamir does not teach that, wherein the system comprises a wrist type of apparatus.

It would have been obvious to one of ordinary skill in the art to utilize wrist type of apparatus, since it is known and well suited for the intended use.

Allowable Subject Matter

7. Claims 3-8 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Prior art does not teach that, he third portion defining an inductive area; and a substrate, the substrate defined by a periphery and a void within the periphery, wherein the first portion, the second portion, and the third portion define a capacitively coupled dipole antenna, and wherein the capacitively coupled dipole antenna is coupled to the substrate such that the capacitative area spans the void recited in independent claim 3.

Citation of relevant prior art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Hill (U.S. Patent No. 5,422,650) discloses a loop antenna with series resonant circuit.

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Duan et al (U.S. Patent No. 6,400,274) discloses a high performance

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mobile power antennas.

Inquiry

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Minh Dieu A whose telephone number is (571)

272-1817. The examiner can normally be reached on M-F (5:30 AM-2: 45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Owens Douglas W can be reached on (571) 272-1662. The

fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Examiner Minh A

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<u>4/7/08</u>

/Douglas W Owens/

Supervisory Patent Examiner, Art Unit 2821

April 8, 2008